rm 3160-5 ugust 2007)		UNITED STATE PARTMENT OF THE I JREAU OF LAND MANA	NTERIOR	Carl	sbad 1	OMB N	APPROVED O. 1004-0135 July 31, 2010
a	Do not use thi	NOTICES AND REPO s form for proposals to I. Use form 3160-3 (AP	drill or to re-ent	ter an	OCD	6. If Indian, Allottee of	
5	UBMIT IN TRI	PLICATE - Other instru	ctions on revers	e side.		7. If Unit or CA/Agre	ement, Name and/or No.
. Type of Well	Gas Well 🗖 Oth	er				8. Well Name and No. HAWK 26 FED ₹	HOH IOH -
. Name of Operator EOG RESOUR	CES INCORPO	Contact: DRATEDE-Mail: stan_wag	STAN WAGNER ner@eogresources.	com	000	9. API Well No. 30-025-42403-0	00-X1 /
a. Address	70702		3b. Phone No. (in Ph: 432-686-3		yee	10. Field and Pool, or RED HILLS	Exploratory
MIDLAND, TX		, R., M., or Survey Description		DEC 0 3	2015	11 Contractor	and Create
Sec 26 T24S F	(7500age, sec., 1. 333E SESE 500 at, 103.536321	FSL 685FEL	0	RECEN	VED	 County or Parish, LEA COUNTY, 	
12.	CHECK APPR	ROPRIATE BOX(ES) T	O INDICATE N/	TURE OF	NOTICE, RI	EPORT, OR OTHE	R DATA
TYPE OF SUE	MISSION			TYPE O	F ACTION		
Notice of Inte	ent	Acidize	Deepen			ion (Start/Resume)	U Water Shut-Off
-		Alter Casing	□ Fracture	Treat	Reclam	ation	Well Integrity
Subsequent R	eport	Casing Repair	New Co	nstruction	Recomp	olete	Other Other
Final Abando	nment Notice	Change Plans	Plug and	I Abandon	Tempor	arily Abandon	Change to Original A PD
		Convert to Injection	D Plug Ba	ck	Water I	Disposal	
If the proposal is t Attach the Bond u following complet testing has been cc determined that th EOG Resource and well numb	o deepen directiona nder which the wor ion of the involved impleted. Final Ab e site is ready for fi es requests an a er as attached:	eration (clearly state all pertine illy or recomplete horizontally k will be performed or provide operations. If the operation re andonment Notices shall be final inspection.) amendment to our appro-	, give subsurface loca e the Bond No. on file esults in a multiple co led only after all requ	tions and meas with BLM/BL mpletion or rec irements, inclus	ured and true ve A. Required sul completion in a ding reclamation	rtical depths of all perti- bsequent reports shall be new interval, a Form 310 n, have been completed,	nent markers and zones. filed within 30 days 60-4 shall be filed once
0		pring to woncamp.					
	00', 17818' MD.			SI	EE ATT	ACHED FO	R
Change well n	umber from Hav	APPROVAL I		C	ONDITI	IONS OF AI	PROVAL
 I hereby certify t 	hat the foregoing is	true and correct.					
	Comm	Electronic Submission # For EOG RESO hitted to AFMSS for proce	URCES INCORPOR	RATED, sent	to the Hobbs		
	oed) STAN WA	GNER	Tit	le REGU	LATORY AN	ALYST	
Name (Printed/Ty)							
Name(Printed/Ty) Signature	(Electronic S	ubmission)	Da	ite 10/16/2	2015		

Approved By_TEUNGKU_MUCHLIS_KRUENG	TROLEUM ENGINEER	Date 11/25/2015
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office H	lobbs Ko	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED **

DEC 07 2015

m

District I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax. (575) 393-0720 District III 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax. (575) 748-9720 District III 1000 Rub Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax. (505) 334-6170 District IV 1220 S. & Francis Dr., Sante Fe, NM 87505 Phone. (505) 476-3460 Fax. (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Sante Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

AMENDED REPORT

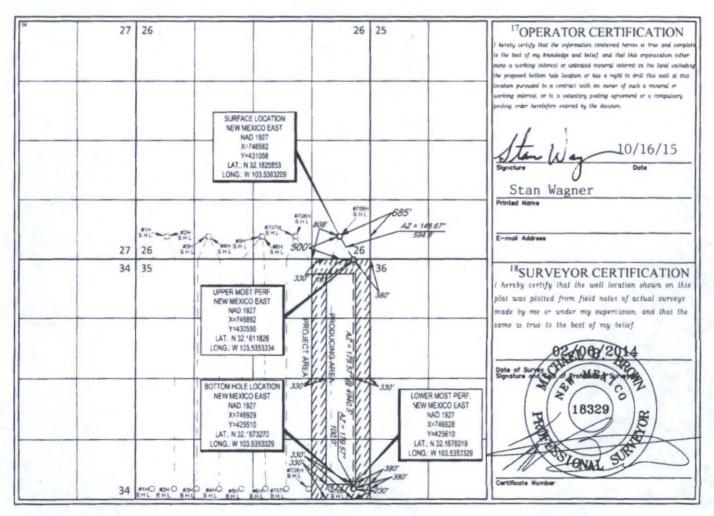
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	² Pool Code	³ Pool Name				
30-025-42403	98092	WC-025 G-09 S243336I; Upper Wol	er Wolfcamp			
⁴ Property Code 314177		roperty Name IK 26 FED	⁶ Well Number #710H			
⁷ OGRID No. 7377		perator Name SOURCES, INC.	⁹ Elevation 3538'			
	¹⁰ Sur	face Location				

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	26	24-S	33-E	-	500'	SOUTH	685'	EAST	LEA

UL or lot no. P	Section 35	Township 24-S	Range 33-E	Lot Idn —	Feet from the 230'	North/South line	Feet from the 380'	East/West line EAST	LEA County
¹³ Dedicated Acres 160.00	¹³ Joint or 1	nfill ¹⁴ Co	nsolidation Cod	le ¹⁸ Order	No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,218'
Top of Salt	1,710'
Base of Salt / Top Anhydrite	5,000'
Base Anhydrite	5,248'
Lamar	5,248'
Bell Canyon	5,279'
Cherry Canyon	6,273'
Brushy Canyon	7,725
Bone Spring Lime	9,250'
1 st Bone Spring Sand	10,220°
2 nd Bone Spring Lime	10,670'
2 nd Bone Spring Sand	10,940'
3rd Bone Spring Lime	11,360'
3rd Bone Spring Sand	11,960'
Wolfcamp	12,300'
TD	12,500'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	6,273'	Oil
Brushy Canyon	7,725'	Oil
Bone Spring Lime	9,250'	Oil
1st Bone Spring Sand	10,220'	Oil
2 nd Bone Spring Lime	10,670'	Oil
2 nd Bone Spring Sand	10,940'	Oil
3rd Bone Spring Lime	11,360'	Oil
3rd Bone Spring Sand	11,960'	Oil
Wolfcamp	12,300'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at 1,300' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0-1,300'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 5,100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-17,818'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,300'	600	13.5	1.73	9.13	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ surface)
	300	14.8	1.34	6.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
9-5/8" 5,100'	1000	12.7	2.22	12.38	Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ surface)
	200	14.8	1.32	6.33	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
5-1/2" 17,818	775	9.0	2.79	10.12	Lead: LiteCRETE + 0.10% D-065 + 0.20% D-046 + 0.40% D-167*+ 0.20% D-198 + 0.04% D-208 + 2.0% D-174 (TOC @ 4,600')
	2100	14.4	1.28	5.69	Tail: Class H + 47.01 pps D-909 + 37.01 pps + 5.0% D-020 + 0.30% D-013 + 0.20% D-046 + 0.10% D-065 + 0.50% D-167 + 2.0% D-174

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 5000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/250 psig and the annular preventer to 5000/250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0-1,300'	Fresh Water Gel	8.6-8.8	28-34	N/c
1,300' - 5,100'	Saturated Brine	10.0-10.2	28-34	N/c
5,100' - 12,030'	Oil Base	8.7-9.4	58-68	N/c - 6
12,030'- 17,818' Lateral	Oil base	10.0-10.5	58-68	N/c - 6

The applicable depths and properties of the drilling fluid systems are as follows.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

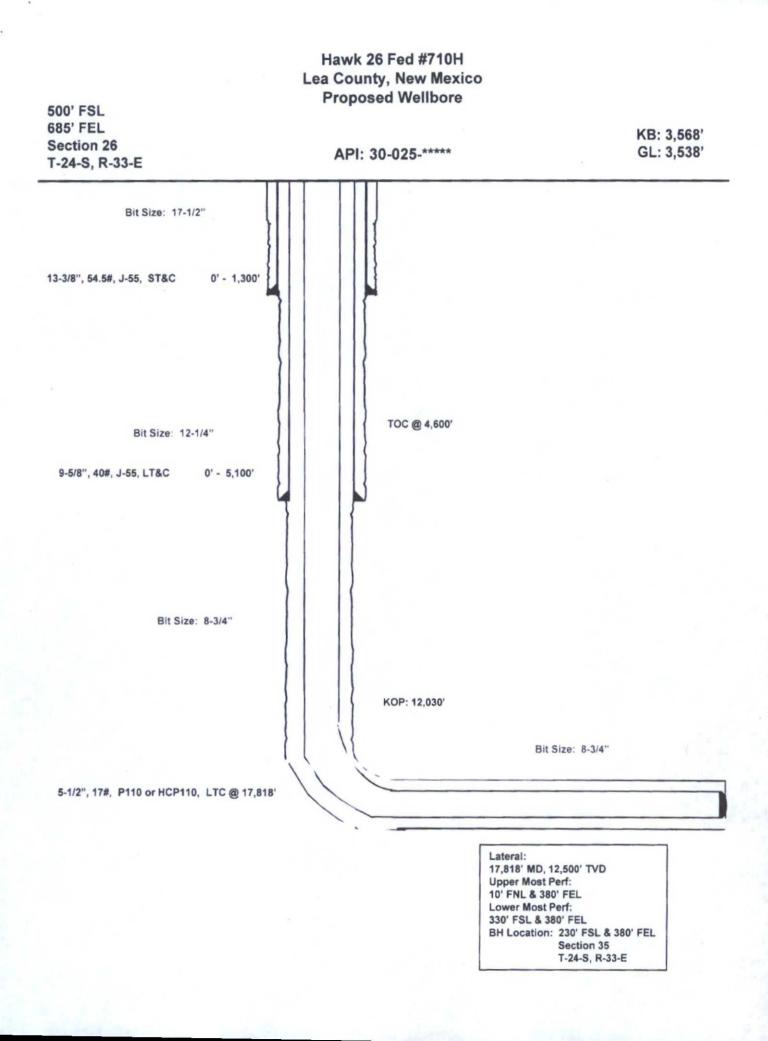
GR-CCL Will be run in cased hole during completions phase of operations.

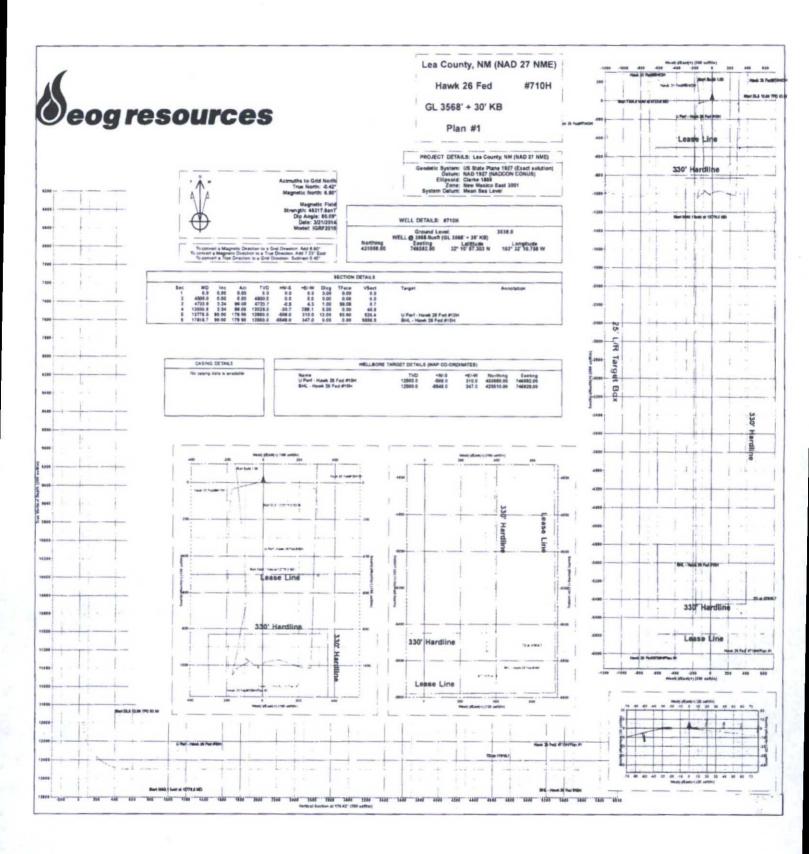
9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5412 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.







EOG Resources - Midland

Lea County, NM (NAD 27 NME) Hawk 26 Fed #710H

OH

Plan: Plan #1

Standard Planning Report

15 October, 2015



EOG Resources, Inc.

Planning Report

Database:	EDM 5	000.1 Single U	lser Db		Local Co	-ordinate Refe	rence:	Well #710H			
Company:		Resources - Mi			TVD Refe			WELL @ 3568.0	usft (GL 3568' +	30' KB)	
Project:	Lea Co	ounty, NM (NAI	D 27 NME)		MD Refer	ence:		WELL @ 3568.0	usft (GL 3568' +	30' KB)	
Site:	Hawk	26 Fed			North Re	ference:		Grid			
Well:	#710	4			Survey C	alculation Met	hod:	Minimum Curvat	ure		
Wellbore:	OH										
Design:	Plan #	1									
Project	Lea Co	unty, NM (NAD	27 NME)								
Map System:	US State	Plane 1927 (E	xact solution)		System Da	tum:	M	ean Sea Level			
Geo Datum:	NAD 192	7 (NADCON C	ONUS)								
Map Zone:	New Mex	ico East 3001									
Site	Hawk 2	6 Fed									
Site Position:			North	ing:	431	,034.00 usft	Latitude:			32° 10' 57.351 I	
From:	Мар		Easti	-	742	2,667.00 usft	Longitude:			103° 32' 56.312 W	
Position Uncertainty		0.0		Radius:		13-3/16 "	Grid Converg	gence:		0.42 °	
Weil	#710H										
Well Position	+N/-S	24	0 usft N	orthing:		431,058.00	usft lat	itude:		32° 10' 57,303 N	
itell Position	+E/-W			-		746.582.00					
	+E1-44			asting:		/40.362.00		ngitude:		103° 32' 10.758 W	
Position Uncertainty		0	.0 usft W	ellhead Elevati	on:		Gro	ound Level:		3,538.0 usft	
Wellbore	ОН										
Magnetics	Mo	del Name	Samp	le Date	Declina (°)			Angle ")	Field St (n1		
		IGRF2010		3/21/2014		7.23		60.09		48,318	
Design	Plan #1										
Audit Notes:											
Version:			Phas	e: P	LAN	Tie	On Depth:		0.0		
Vertical Section:		D	epth From (T (usft)	VD)	+N/-S (usft)		Sft)		ction		
			0.0		0.0		0.0		(°) 6.42		
						and the second se	a design of the second s				
Plan Sections			-								
			Vertical			Dogleg	Build	Ture			
Measured Depth Inclin	nation	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO		
Measured Depth Inclin	nation °)	Azimuth (°)		+N/-S (usft)	+E/-W (usft)				TFO (°)	Target	
Measured Depth Inclin			Depth			Rate	Rate	Rate (*/100usft)		Target	
Measured Depth Inclin (usft) (*)	(*)	Depth (usft)	(usft)	(usft)	Rate (*/100usft)	Rate (°/100usft)	Rate (*/100usft) 0.00	(*)	Target	
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Measured Inclin Depth Inclin (usft) () 0.0 4,500.0 4.723.8 ()	0.00 0.00 2.24	(°) 0.00 96.08	Depth (usft) 0.0 4.500.0 4.723.7	(usft) 0.0 0.0 -0.5	(usft) 0.0 0.0 4.3	Rate (*/100usft) 0.00 0.00 1.00	Rate (*/100usft) 0.00 0.00 1.00	Rate (*/100usft) 0.00 0.00 0.00	(*) 0.00 0.00 96.08 0.00	Target Perl - Hawk 26 Fed	



Database: Company: Project: Site: Well: Wellbore: Design: EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME) Hawk 26 Fed #710H OH Plan #1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well #710H WELL @ 3568.0usft (GL 3568' + 30' KB) WELL @ 3568.0usft (GL 3568' + 30' KB) Grid Minimum Curvature

Planned Survey

0.0 0.00	Turn Rate	Rate	Build Rate (°/100usft)	Dogleg Rate (*/100usft)	Vertical Section (usft)	+E/-W	+N/-S	ertical Depth	Azimuth	Inclination	Measured Depth	
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COMPASS 5000.1 Build 72



 Database:
 EDM 5000.1 Single User Db

 Company:
 EOG Resources - Midland

 Project:
 Lea County, NM (NAD 27 NME)

 Site:
 Hawk 26 Fed

 Well:
 #710H

 Wellbore:
 OH

 Design:
 Plan #1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well #710H WELL @ 3568.0usft (GL 3568' + 30' KB) WELL @ 3568.0usft (GL 3568' + 30' KB) Grid Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (*/100usft)	Rate (*/100usft)	Rate (°/100usft)
5,300.0		96.08	5,299.5	-2.8	26.7	4.5	0.00	0.00	0.00
5,400.0	2.24	96.08	5,399.4	-3.3	30.6	5.2	0.00	0.00	0.00
5,500.0		96.08	5,499.4	-3.7	34.5	5.8	0.00	0.00	0.00
5,600.0		96.08	5,599.3	-4.1	34.5	6.5	0.00		
5,700.0		96.08	5,699.2	-4.5	42.2	7.1		0.00	0.00
5,800.0		96.08	5,799.1	-4.9	46.1	7.8	0.00	0.00	0.00
5,900.0		96.08	5,899.0						
6,000.0		96.08		-5.3	50.0	8.4	0.00	0.00	0.00
			5,999.0	-5.7	53.9	9.1	0.00	0.00	0.00
6,100.0	2.24	96.08	6,098.9	-6.2	57.8	9.8	0.00	0.00	0.00
6,200.0 6,300.0		96.08 96.08	6,198.8 6,298.7	-6.6 -7.0	61.7 65.5	10.4	0.00	0.00	0.00
6,400.0		96.08	6,398.7	-7.4	69.4	11.7	0.00	0.00	0.00
6,500.0	2.24	96.08	6,498.6	-7.8	73.3	12.4	0.00	0.00	0.00
6,600.0	2.24	96.08	6,598.5	-8.2	77.2	13.0	0.00	0.00	0.00
6,700.0 6,800.0	2.24	96.08 96.08	6,698.4	-8.6	81.1	13.7	0.00	0.00	0.00
			6,798.4	-9.1	85.0	14.3	0.00	0.00	0.00
6,900.0		96.08	6,898.3	-9.5	88.8	15.0	0.00	0.00	0.00
7,000.0	2.24	96.08	6,998.2	-9.9	92.7	15.6	0.00	0.00	0.00
7,100.0	2.24	96.08	7,098.1	-10.3	96.6	16.3	0.00	0.00	0.00
7,200.0	2.24	96.08 96.08	7,198.1 7,298.0	-10.7	100.5 104.4	17.0	0.00	0.00	0.00
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7,400.0	2.24	96.08	7,397.9	-11.5	108.3	18.3	0.00	0.00	0.00
7,500.0	2.24	96.08	7,497.8	-11.9	112.1	18.9	0.00	0.00	0.00
7,600.0	2.24	96.08	7,597.7	-12.4	116.D	19.6	0.00	0.00	0.00
7,700.0	2.24	96.08 96.08	7,697.7 7,797.6	-12.8	119.9 123.8	20.2	0.00	0.00	0.00
									0.00
7,900.0	2.24	96.08	7.897.5	-13.6	127.7	21.5	0.00	0.00	0.00
8,000.0	2.24	96.08	7,997.4	-14.0	131.6	22.2	0.00	0.00	0.00
8,100.0	2.24	96.08	8,097.4	-14.4	135.4	22.9	0.00	0.00	0.00
8,200.0 8,300.0	2.24	96.08 96.08	8,197.3 8,297.2	-14.8	139.3	23.5	0.00	0.00	0.00
					143.2	24.2	0,00	0.00	0.00
8,400.0	2.24	96.08	8,397.1	-15.7	147.1	24.8	0.00	0,00	0.00
8,500.0	2.24	96.08	8,497.1	-16.1	151.0	25.5	0.00	0.00	0.00
8,600.0	2.24	96.08	8,597.0	-16.5	154.8	26.1	0.00	0.00	0.00
8,700.0	2.24	96.08	8,696.9	-16.9	158.7	26.8	0.00	0.00	0.00
8,800.0	2.24	96.08	8,796.8	-17.3	162.6	27.4	0.00	0.00	0.00
8,900.0	2.24	96.08	8,896,8	-17.7	166.5	28.1	0.00	0.00	0.00
9,000.0	2.24	96.08	8,996.7	-18.2	170.4	28.8	0.00	0.00	0.00
9,100.0	2.24	96.08	9,096.6	-18.6	174.3	29.4	0.00	0.00	0.00
9,200.0	2.24	96.08	9,196.5	-19.0	178.1	30.1	0.00	0.00	0.00
9,300.0	2.24	96.08	9,296.5	-19.4	182.0	30.7	0.00	0.00	0.00
9,400.0	2.24	96.08	9,396.4	-19.8	185.9	31.4	0.00	0.00	0.00
9,500.0	2.24	96.08	9,496.3	-20.2	189.8	32.0	0.00	0.00	0.00
9,600.0	2.24	96.08	9,596.2	-20.6	193.7	32.7	0.00	0.00	0.00
9,700.0	2.24	96.08	9,696.1	-21.0	197.6	33.3	0.00	0.00	0.00
9,800.0	2.24	96.08	9,796.1	-21.5	201.4	34.0	0.00	0.00	0.00
9,900.0	2.24	96.08	9,896.0	-21.9	205.3	34.6	0.00	0.00	0.00
10,000.0	2.24	96.08	9,995.9	-22.3	209.2	35.3	0.00	D.D0	0.00
10,100.0	2.24	96.08	10,095.8	-22.7	213.1	36.0	0.00	0.00	0.00
10,200.0	2.24	96.08	10,195.8	-23.1	217.0	36.6	0.00	0.00	0.00
10.300.0	2.24	96.08	10,295.7	-23.5	220.9	37.3	0.00	0.00	0.00
10.400.0	2.24	96.08	10,395.6	-23.9	224.7	37.9	0.00	0.00	0.00
10,500.0	2.24	96.08	10,495.5	-24.4	228.6	38.6	0.00	0.00	0.00
10,600.0	2.24	96.08	10,595.5	-24.8	232.5	39.2	0.00	0.00	0.00

10/15/2015 1:55:31PM

COMPASS 5000.1 Build 72



Database: Company: Project: Site: Well: Wellbore: Design: EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME) Hawk 26 Fed #710H OH Plan #1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well #710H WELL @ 3568.0usft (GL 3568' + 30' KB) WELL @ 3568.0usft (GL 3568' + 30' KB) Grid Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Tum
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(*)	(*)	(usft)	(usft)	(usft)	(usft)	(*/100usft)	(°/100usft)	(°/100usft
10.700.0	2.24	96.08	10.695.4	-25.2	236.4	39.9	0.00	0.00	0.
10.800.0	2.24	96.08	10,795.3	-25.6	240.3	40.5	0.00	0.00	0.
10,900.0	2.24	96.08	10.895.2	-26.0	244.2	41.2	0.00	0.00	0.
11.000.0	2.24	96.08	10,995.2	-26.4	248.0	41.9	0.00	0.00	0.
11,100.0	2.24	96.08	11,095.1	-26.8	251.9	42.5	0.00	0.00	0.
11,200.0	2.24	96.08	11,195.0	-27.3	255.8	43.2	0.00	0.00	0.
11.300.0	2.24	96.08	11,294.9	-27.7	259.7	43.8	0.00	0.00	0.
11,400.0	2.24	96.08	11,394.9	-28.1	263.6	44.5	0.00	0.00	0.
11,500.0	2.24	96.08	11,494.8	-28.5	267.4	45.1	0.00	0.00	0.
11,600.0	2.24	96.08	11,594.7	-28.9	271.3	45.8	0.00	0.00	0.
11,700.0	2.24	96.08	11,694.6	-29.3	275.2	46.4	0.00	0.00	0.
11.800.0	2.24	96.08	11,794.5	-29.7	279.1	47.1	0.00	0.00	0.
11,900.0	2.24	96.08	11,894.5	-30.1	283.0	47.B	0.00	0.00	0.0
12.000.0	2.24	96.08	11,994.4	-30.6	286.9	48.4	0.00	0.00	0.0
12.030.6	2.24	96.08	12.025.0	-30.7	288,1	48.6	0.00	0.00	0.
12.050.0	3.40	138.82	12.044.3	-31.2	288.8	49.1	12.00	6.02	220.
12.075.0	6.00	157.91	12.069.3	-32.9	289.8	51.0	12.00	10.40	76.
12,100,0	8,86	165.15	12,094,1	-36.0	290.8	54.1	12.00	11.42	28.9
12 125.0	11,79	168.86	12,118,6	-40.4	291.B	58.5	12.00	11.71	14.
12.150.0	14.74	171.09	12,143,0	-46.0	292.7	64.2	12.00	11.82	8.
12.175.0	17.71	172,60	12,167,0	-52.9	293.7	71.2	12.00	11.88	6.0
12.200.0	20.69	173.68	12,190.6	-52.9	293.7	79.4	12.00	11.92	4
12,225.0	23.68	174.50	12,213.7	-70.5	295.7	88.8	12.00	11.94	3.
12,250.0	26.66	175.14				99.4			
			12,236.4	-81.1	296.6		12.00	11.95	2.1
12,275.0	29.65	175.67	12,258.4	-92.8	297.6	111.2	12.00	11.96	2.
12,300.0	32.64 35.64	176.10 176.47	12,279.8 12,300.5	-105.7	298.5	124.2	12.00	11.97	1.
12.350.0	38.63	176.79	12.320.4	-134.8	300.3	153.3	12.00	11.98	1.
12.375.0	41.63	177.08	12,339.5	-150.9	301.1	169.4	12.00	11.98	1.1
12.400.0	44.62	177.32	12,357.8	-167.9	302.0	186.5	12.00	11.98	1.0
12.425.0	47.62	177.55	12.375.1	-185.9	302.8	204.5	12.00	11.98	0.9
12.450.0	50.61	177.75	12,391.4	-204.8	303,6	223.4	12.00	11.98	0,1
12.475.0	53.61	177.94	12,406.8	-224.5	304.3	243.1	12.00	11.99	0.7
12.500.0	56.61	178.11	12,421.1	-245.0	305.0	263.6	12.00	11.99	0.6
12.525.0	59.60	178.27	12.434.3	-266.2	305.7	284.8	12.00	11.99	0.0
12.550.0	62.60	178.43	12,446,4	-288.1	306.3	306.7	12.00	11.99	0.6
12,575.0	65.60	178.57	12,457.3	-310.6	306.9	329.2	12.00	11.99	0.5
12,600.0	68.59	178.71	12,467.0	-333.6	307.4	352.2	12.00	11.99	0.5
12.625.0	71.59	178.84	12,475.5	-357.1	307.9	375.6	12.00	11,99	0.5
12.650.0	74.59	178.97	12,482.8	-381.0	308.4	399.5	12.00	11.99	0.5
12,675.0	77.59	179.09	12,488.8	-405.3	308.8	423.8	12.00	11.99	0.4
12,700.0	80.58	179.21	12,493.6	-429.8	309.2	448.3	12.00	11.99	0.4
12,725.0	83.58	179.33	12,497.0	-454.6	309.5	473.0	12.00	11.99	0.4
12,750.0	86.58	179.45	12,499.1	-479.5	309.8	497.9	12.00	11.99	0.4
12.775.0	89.58	179.56	12,500.0	-504.5	310.0	522.8	12.00	11.99	0.4
12.778.5	90.00	179.58	12,500.0	-508.0	310.0	526.4	12.00	11,99	0.4
	vk 26 Fed #10H	178.50	12,000,0	-300.0	510.0	520.4	12.00	11,00	0.
12,800.0	90.00	179.58	12,500.0	-529.5	310.2	547.8	0.00	0.00	0.0
12.900.0	90.00	179.58	12,500.0	-629.5	310.9	647.7	0.00	0.00	0.0
13.000.0	90.00	179.58	12,500.0	-729.5	311.6	747.5	0.00	0.00	0.0
13.100.0	90.00	179.58	12,500.0	-829.5	312.4	847.3	0.00	0.00	0.0
13.200.0	90.00	179.58	12,500.0	-929.5	313.1	947.2	0.00	0.00	0.0
13.300.0	90.00	179.58	12,500.0	-1,029.5	313.8	1.047.0	0.00	0.00	0.0

10/15/2015 1:55:31PM

COMPASS 5000.1 Build 72



 Database:
 EDM 5000.1 Single User Db

 Company:
 EOG Resources - Midland

 Project:
 Lea County, NM (NAD 27 NME)

 Site:
 Hawk 26 Fed

 Well:
 #710H

 Wellbore:
 OH

 Design:
 Plan #1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well #710H WELL @ 3568.0usft (GL 3568' + 30' KB) WELL @ 3568.0usft (GL 3568' + 30' KB) Grid Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Tum
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(*)	(*)	(usit)	(usft)	(usft)	(usft)	(°/100usft)	(*/100usft)	(°/100usft)
13,400.0	90.00	179.58	12,500.0	-1,129.5	314.6	1,146.9	0.00	0.00	0.0
13.500.0	90.00	179.58	12,500.0	-1.229.5	315.3	1,246.7	0.00	0.00	0.0
13,600.0	90.00	179.58	12,500.0	-1.329.5	316.0	1,346.6	0.00	0.00	0.0
13,700.0	90.00	179.58	12,500.0	-1,429.5	316.8	1,446.4	0.00	0.00	0.0
13.800.0	90.00	179.58	12,500.0	-1,529.5	317.5	1,546.3	0.00	0.00	0.0
13.900.0	90.00	179.58	12,500.0	-1,629.4	318.2	1,646.1	0.00	0.00	0.0
14,000.0	90.00	179.58	12,500.0	-1,729.4	319.0	1,746.0	0.00	0.00	0.0
14,100.0	90.00	179.58	12,500.0	-1,829.4	319.7	1,845.8	0.00	0.00	0.0
14,200.0	90.00	179.58	12,500.0	-1.929.4	320.4	1,945.7	0.00	0.00	0.0
14,300.0	90.00	179.58	12,500.0	-2.029.4	321.2	2,045.5	0.00	0.00	0.0
14,400.0	90.00	179.58	12,500.0	-2,129.4	321.9	2,145.4	0.00	0.00	0.0
14,500.0	90.00	179.58	12,500.0	-2.229.4	322.6	2,245.2	0.00	0.00	0.0
14,600.0	90.00	179.58	12,500.0	-2.329.4	323.4	2.345.1	0.00	0.00	0.0
14,700.0	90.00	179.58	12,500.0	-2.429.4	324.1	2,444.9	0.00	0.00	0.0
14.800.0	90.00	179.58	12,500.0	-2,529.4	324.8	2,544.8	0.00	0.00	0.0
14,900.0	90,00	179.58	12,500.0	-2,629,4	325.6	2,644.6	0.00	0.00	0.0
15.000.0	90.00	179,58	12,500.0	-2,729.4	326.3	2,744.5	0.00	0.00	0.0
15.100.0	90.00	179.58	12,500.0	-2,829.4	327.0	2,844.3	0.00	0.00	0.0
15.200.0	90.00	179.58	12,500.0	-2,929.4	327.8	2,944.2	0.00	0.00	0.0
15,300.0	90.00	179,58	12,500.0	-3.029.4	328.5	3.044.0	0.00	0.00	0.0
15,400,0	90.00	179,58	12,500,0	-3,129.4	329.2	3,143.9	0.00	0.00	0.0
15,500.0	90.00	179.58	12,500.0	-3,229.4	330.0	3,243.7	0.00	0.00	0.0
15,600.0	90.00	179,58	12,500.0	-3,329.4	330.7	3,343.6	0.00	0.00	0.0
15,700.0	90.00	179,58	12,500.0	-3,429.4	331.4	3,443.4	0.00	0.00	0.0
15,800.0	90.00	179.58	12,500.0	-3.529.4	332.2	3,543.2	0.00	0.00	0.0
15,900.0	90.00	179.58	12,500.0	-3.629.4	332.9	3,643.1	0.00	0.00	0.0
16,000.0	90.00	179.58	12,500.0	-3,729.4	333.6	3,742.9	0.00	0.00	0.0
16,100.0	90.00	179.58	12,500.0	-3,829.4	334.4	3,842.8	0.00	0.00	0.0
16,200.0	90.00	179.58	12,500.0	-3,929.4	335.1	3,942.6	0.00	0.00	0.0
16.300.0	90.00	179.58	12,500.0	-4.029.4	335.9	4,042.5	0.00	0.00	0.0
16,400,0	90.00	179.58	12,500.0	-4,129.4	336.6	4.142.3	0.00	0.00	0.0
16.500.0	90.00	179.58	12,500.0	-4,229.4	337.3	4,242.2	0.00		. 0.0
16.600.0	90.00	179.58	12,500.0	-4,329.4	338.1	4.342.0	0.00	0.00	0.0
16,700.0	90.00	179.58	12,500.0	-4.429.4	338.8	4,441.9	0.00	0.00	0.0
16.800.0	90.00	179.58	12,500.0	-4,529.4	339.5	4.541.7	0.00	0.00	0.0
16.900.0	90.00	179.58	12,500.0	-4,629.4	340.3	4,641.6	0.00	0.00	0.0
17,000.0	90.00	179.58	12,500.0	-4,729.4	341.0	4,741.4	0.00	0.00	0.0
17,100.0	90.00	179.58	12,500.0	-4.829.4	341.7	4.841.3	0.00	0.00	0.0
17,200.0	90.00	179.58	12,500.0	-4,929.4	342.5	4,941.1	0.00	0.00	0.0
17,300.0	90.00	179.58	12,500.0	-5,029.4	343.2	5.041.0	0.00	0.00	0.0
17,400.0	90.00	179.58	12,500.0	-5,129.4	343.9	5.140.8	0.00	0.00	0.0
17,500.0	90.00	179.58	12,500.0	-5,229.4	344.7	5,240.7	0.00	0.00	0.0
17,600.0	90.00	179.58	12,500.0	-5.329.3	345.4	5,340.5	0.00	0.00	0.0
17,700.0	90.00	179.58	12,500.0	-5,429.3	346.1	5,440.4	0.00	0.00	0.0
17.800.0	90.00	179.58	12,500.0	-5,529.3	346.9	5,540.2	0.00	0.00	0.0
17,818.7	90.00	179.58	12,500.0	-5,548.0	347.0	5,558.8	0.00	0.00	0.0
	26 Fed #10H								



Design Targets

Planning Report

 Database:
 EDM 5000.1 Single User Db

 Company:
 EOG Resources - Midland

 Project:
 Lea County, NM (NAD 27 NME)

 Site:
 Hawk 26 Fed

 Well:
 #710H

 Wellbore:
 OH

 Design:
 Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well #710H WELL @ 3568.0usft (GL 3568' + 30' KB) WELL @ 3568.0usft (GL 3568' + 30' KB) Grid Minimum Curvature

Target Name - hit/miss target Dip Dir. TVD +N/-S +E/-W **Dip Angle** Northing Easting - Shape (usft) (°) (usft) (°) (usft) (usft) (usft) Latitude Longitude U Perf - Hawk 26 Fed #1 0.00 0.00 12,500.0 -508.0 310.0 430,550.00 746,892.00 32° 10' 52.254 N 103° 32' 7.195 W - plan hits target center - Point BHL - Hawk 26 Fed #10 0.00 0.00 12,500.0 -5.548.0 347.0 425,510.00 746,929.00 32° 10' 2.378 N 103" 32' 7.199 W - plan hits target center - Point

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources, Inc.
LEASE NO.:	NMNM-19858
WELL NAME & NO.:	Hawk 26 Fed 710H
SURFACE HOLE FOOTAGE:	0500' FSL & 0685' FEL
BOTTOM HOLE FOOTAGE	0230' FSL & 0380' FEL Sec. 35, T. 24 S., R 33 E.
LOCATION:	Section 26, T. 24 S., R 33 E., NMPM
COUNTY:	Lea County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

🛛 Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Bone Spring formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If

available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Rustler, Red Beds, and Delaware. Possibility of encountering abnormal pressure upon penetrating Third Bone Spring and all the subsequent formations

- The 13-3/8 inch surface casing shall be set at approximately 1300 feet (in a competent bed <u>below the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface. Fresh water mud to be used to setting depth.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the

lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the

straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

- 3. 5M/10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

Approved for aerated mud, but not air drilling.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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